

# *GETTLER - RYAN INC.*

## ***TRANSMITTAL***

July 20, 2005  
G-R #385105

TO: Mr. Albert Simmons  
Cambria Environmental Technology, Inc.  
5900 Hollis Street, Suite A  
Emeryville, California 94608

FROM: Deanna L. Harding  
Project Coordinator  
Gettler-Ryan Inc.  
6747 Sierra Court, Suite J  
Dublin, California 94568

RE: **Chevron Service Station**  
**#9-0308**  
**2399 Market Street at 17<sup>th</sup> Street**  
**San Francisco, California**

WE HAVE ENCLOSED THE FOLLOWING:

| <b>COPIES</b> | <b>DATED</b>  | <b>DESCRIPTION</b>  |
|---------------|---------------|---|
| 1             | July 19, 2005 | Groundwater Monitoring and Sampling Report<br>Second Quarter - Event of June 15, 2005 |

COMMENTS:

This report is being sent for your review. Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to *August 5, 2005*, at which time the final report will be distributed to the following:

cc: Ms. Stacie Hartung-Frerichs, ChevronTexaco Company, P.O. Box 6012, Room K2200, San Ramon,  
CA 94583  
Mr. Albert Lee, City & County of San Francisco, Dept. of Public Health, Bureau of Environmental  
Health Management, 1390 Market Street, Suite 210, San Francisco, CA 94102  
Mr. Dave Sahagun Enterprises, Inc. DBA Castro Street Chevron, 2399 Market Street, San Francisco,  
CA, 94114

Enclosures

trans/9-0308-SHF

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# GETTLER - RYAN INC.

July 19, 2005  
G-R Job #385105

Ms. Stacie Hartung-Frerichs  
ChevronTexaco Company  
P.O. Box 6012, Room K2200  
San Ramon, CA 94583

**RE: Second Quarter Event of June 15, 2005**  
Groundwater Monitoring & Sampling Report  
Chevron Service Station #9-0308  
2399 Market Street at 17<sup>th</sup> Street  
San Francisco, California

Dear Ms. Hartung-Frerichs:

This report documents the most recent groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

Static groundwater levels were measured and the wells were checked for the presence of separate-phase hydrocarbons. Static water level data, groundwater elevations, and separate-phase hydrocarbon thickness (if any) are presented in the attached Table 1. A Potentiometric Map is included as Figure 1.

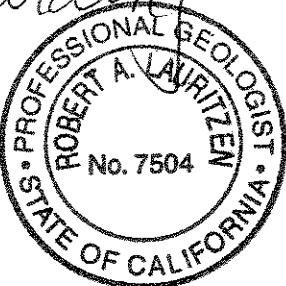
Groundwater samples were collected from the monitoring wells and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Analytical results are presented in the table(s) listed below. The chain of custody document and laboratory analytical report are also attached.

Please call if you have any questions or comments regarding this report. Thank you.

Sincerely,

*Deanna L. Harding*  
Deanna L. Harding  
Project Coordinator

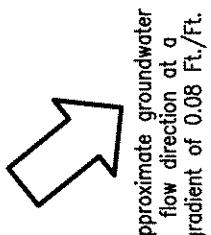
*Robert A. Lauritzen*  
Robert A. Lauritzen  
Senior Geologist, P.G. No. 7504



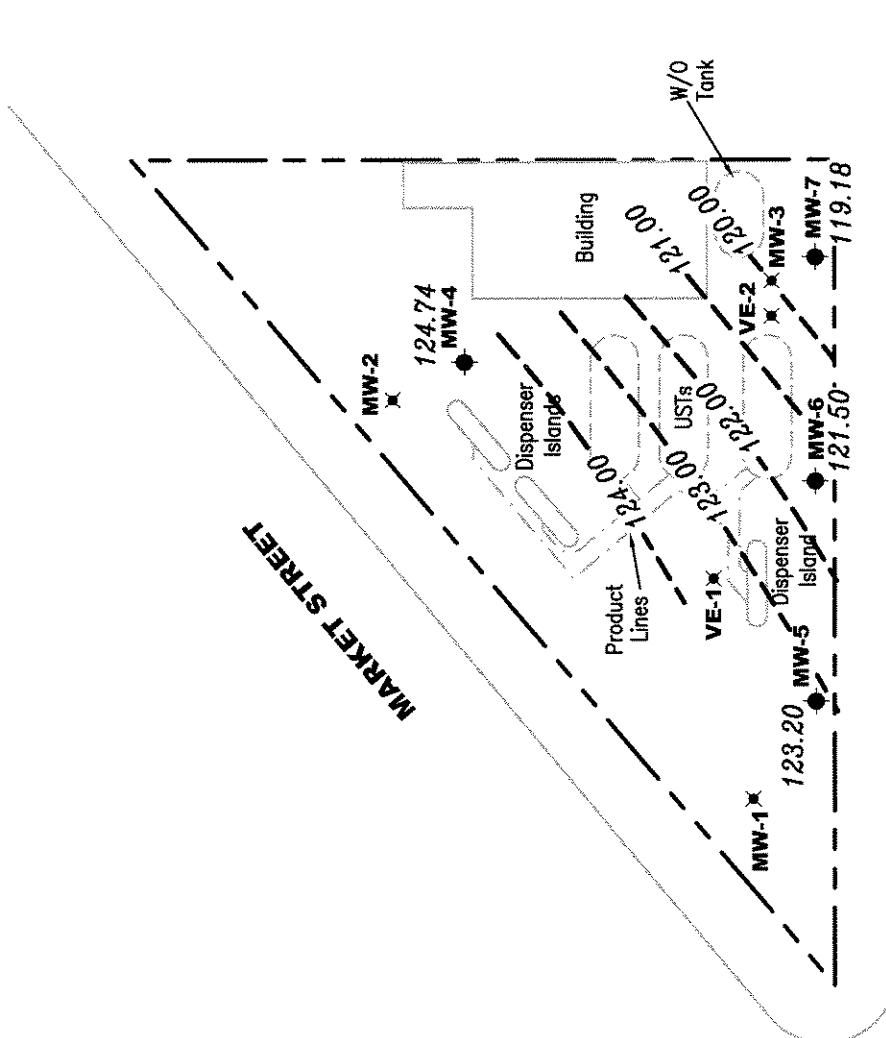
- Figure 1: Potentiometric Map  
Table 1: Groundwater Monitoring Data and Analytical Results  
Table 2: Groundwater Analytical Results – Oxygenate Compounds  
Attachments: Standard Operating Procedure - Groundwater Sampling  
Field Data Sheets  
Chain of Custody Document and Laboratory Analytical Reports

## EXPLANATION

- Groundwater monitoring well
- ✖ Abandoned well
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level
- 99.99 Groundwater elevation contour, dashed where inferred



Approximate groundwater flow direction at a gradient of 0.08 Ft./Ft.



Source: Figure modified from drawing provided by Cambria Fig 2 Site Plan dated 12/02/04

Scale in Feet

1  
N  
0 40

**POTENSIOMETRIC MAP**  
Chevron Service Station #9-0308  
2399 Market Street  
San Francisco, California

REVISED DATE  
June 15, 2005

**GETTLER - RYAN INC.**  
6747 Sierra Court, Suite J  
Dublin, CA 94568 (925) 551-7555

PROJECT NUMBER  
385105  
FILE NAME: P:\Enviro\Chevron\9-0308\905-9-0308.dwg | Layout Tab: Pot

REVIEWED BY

DATE

385105  
FILE NAME: P:\Enviro\Chevron\9-0308\905-9-0308.dwg | Layout Tab: Pot

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**

Chevron Service Station #9-0308

2399 Market Street

San Francisco, California

| WELL ID                     | TOC*          | DW<br>(ft.)  | GWE<br>(msl)  | TPH-G<br>(ppb) | B<br>(ppb)     | T<br>(ppb)     | E<br>(ppb)     | X<br>(ppb)     | M/TBE<br>(ppb) |
|-----------------------------|---------------|--------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>MW-4</b>                 |               |              |               |                |                |                |                |                |                |
| 12/23/04 <sup>1,2</sup>     | 144.19        | 19.82        | 124.37        | 64             | 0.6            | <0.5           | <0.5           | 2              | 5              |
| 03/21/05 <sup>2</sup>       | 144.19        | 19.50        | 124.69        | <50            | <0.5           | <0.5           | <0.5           | 3              | <0.5           |
| <b>06/15/05<sup>2</sup></b> | <b>144.19</b> | <b>19.45</b> | <b>124.74</b> | <b>&lt;50</b>  | <b>&lt;0.5</b> | <b>&lt;0.5</b> | <b>&lt;0.5</b> | <b>4</b>       | <b>&lt;0.5</b> |
| <b>MW-5</b>                 |               |              |               |                |                |                |                |                |                |
| 12/23/04 <sup>1,2</sup>     | 144.42        | 22.93        | 121.49        | 3,200          | 36             | 1              | 0.9            | 0.6            |                |
| 03/21/05 <sup>2</sup>       | 144.42        | 22.05        | 122.37        | 2,700          | 120            | 2              | 3              | 2              |                |
| <b>06/15/05<sup>2</sup></b> | <b>144.42</b> | <b>21.22</b> | <b>123.20</b> | <b>2,800</b>   | <b>290</b>     | <b>6</b>       | <b>6</b>       | <b>6</b>       | <b>4</b>       |
| <b>MW-6</b>                 |               |              |               |                |                |                |                |                |                |
| 12/23/04 <sup>1,2</sup>     | 142.68        | 21.80        | 120.88        | 45,000         | 5,100          | 6,200          | 1,100          | 4,600          | 1,900          |
| 03/21/05 <sup>2</sup>       | 142.68        | 20.89        | 121.79        | 56,000         | 3,900          | 5,900          | 2,200          | 9,900          | 700            |
| <b>06/15/05<sup>2</sup></b> | <b>142.68</b> | <b>21.18</b> | <b>121.50</b> | <b>47,000</b>  | <b>2,700</b>   | <b>4,600</b>   | <b>2,400</b>   | <b>11,000</b>  | <b>210</b>     |
| <b>MW-7</b>                 |               |              |               |                |                |                |                |                |                |
| 12/23/04 <sup>1,2</sup>     | 141.15        | 22.25        | 118.90        | 22,000         | 330            | 8              | 700            | 100            | 1,300          |
| 03/21/05 <sup>2</sup>       | 141.15        | 21.90        | 119.25        | 3,400          | 110            | 8              | 170            | 28             | 800            |
| <b>06/15/05<sup>2</sup></b> | <b>141.15</b> | <b>21.97</b> | <b>119.18</b> | <b>140</b>     | <b>1</b>       | <b>&lt;0.5</b> | <b>&lt;0.5</b> | <b>&lt;0.5</b> | <b>82</b>      |
| <b>TRIP BLANK</b>           |               |              |               |                |                |                |                |                |                |
| QA                          |               |              |               |                |                |                |                |                |                |
| 12/23/04 <sup>2</sup>       | --            | --           | --            | <50            | <0.5           | <0.5           | <0.5           | <0.5           | <0.5           |
| 03/21/05 <sup>2</sup>       | --            | --           | --            | <50            | <0.5           | <0.5           | <0.5           | <0.5           | <0.5           |
| <b>06/15/05<sup>2</sup></b> | <b>--</b>     | <b>--</b>    | <b>--</b>     | <b>&lt;50</b>  | <b>&lt;0.5</b> | <b>&lt;0.5</b> | <b>&lt;0.5</b> | <b>&lt;0.5</b> | <b>&lt;0.5</b> |

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**

Chevron Service Station #9-0308  
2399 Market Street  
San Francisco, California

**EXPLANATIONS:**

TOC = Top of Casing  
(ft.) = Feet  
DTW = Depth to Water  
GWE = Groundwater Elevation  
(msl) = Mean sea level

TPH-G = Total Petroleum Hydrocarbons as Gasoline  
B = Benzene  
T = Toluene  
E = Ethylbenzene  
X = Xylenes

MTBE = Methyl tertiary butyl ether  
(ppb) = Parts per billion  
-- = Not Measured/Not Analyzed  
QA = Quality Assurance/Trip Blank

\* TOC elevations for were surveyed on January 31, 2005, by Virgil Chavez Land Surveying. The benchmark for this survey was a cut crow's foot in the outer rim of a catch basin at the northwest corner of South Van Ness Ave. and 17th St., (Benchmark Elevation = 22.90 feet, NGVD 29).

- <sup>1</sup> Well development performed.  
<sup>2</sup> BTEx and MTBE by EPA Method 8260.

**Table 2**  
**Groundwater Analytical Results - Oxygenate Compounds**

Chevron Service Station #9-0308  
 2399 Market Street  
 San Francisco, California

| WELL ID     | DATE            | TBA<br>(ppb) | MTBE<br>(ppb) | DIPK<br>(ppb) | ETBE<br>(ppb) | TAME<br>(ppb) |
|-------------|-----------------|--------------|---------------|---------------|---------------|---------------|
| <b>MW-4</b> | 12/23/04        | <5           | 5             | <0.5          | <0.5          | <0.5          |
|             | 03/21/05        | <5           | 3             | <0.5          | <0.5          | <0.5          |
|             | <b>06/15/05</b> | <5           | <0.5          | <0.5          | <0.5          | <0.5          |
| <b>MW-5</b> | 12/23/04        | 38           | 0.6           | <0.5          | <0.5          | <0.5          |
|             | 03/21/05        | <5           | 2             | <0.5          | <0.5          | <0.5          |
|             | <b>06/15/05</b> | <b>16</b>    | <b>4</b>      | <0.5          | <0.5          | <0.5          |
| <b>MW-6</b> | 12/23/04        | 560          | 1,900         | <3            | <3            | 4             |
|             | 03/21/05        | <50          | 700           | <5            | <5            | <5            |
|             | <b>06/15/05</b> | <b>37</b>    | <b>210</b>    | <3            | <3            | <3            |
| <b>MW-7</b> | 12/23/04        | 710          | 1,300         | <3            | <3            | <3            |
|             | 03/21/05        | 420          | 800           | <1            | <1            | <1            |
|             | <b>06/15/05</b> | <b>17</b>    | <b>82</b>     | <0.5          | <0.5          | <0.5          |

**Table 2**  
Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-0308  
2399 Market Street  
San Francisco, California

**EXPLANATIONS:**

TBA = Tertiary butyl alcohol  
MTBE = Methyl tertiary butyl ether  
DIPE = Di-isopropyl ether  
ETBE = Ethyl tertiary butyl ether  
TAME = Tertiary amyl methyl ether  
(ppb) = Parts per billion

**ANALYTICAL METHOD:**

EPA Method 8260 for Oxygenate Compounds

## STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging. Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by ChevronTexaco Company, the purge water and decontamination water generated during sampling activities is transported by IWM to McKittrick Waste Management located in McKittrick, California.



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-0308Job Number: 385105Site Address: 2399 Market StreetEvent Date: 6-15-05 (inclusive)City: San Francisco, CASampler: Soe

|                        |                                     |                    |                        |                      |                         |  |
|------------------------|-------------------------------------|--------------------|------------------------|----------------------|-------------------------|--|
| Well ID                | <u>MW-4</u>                         | Date Monitored:    | <u>6-15-05</u>         | Well Condition:      | <u>O.K.</u>             |  |
| Well Diameter          | <u>2</u> in.                        | Volume Factor (VF) | 3/4"= 0.02<br>4"= 0.66 | 1"= 0.04<br>5"= 1.02 | 2"= 0.17<br>6"= 1.50    | 3"= 0.38<br>12"= 5.80                  |
| Total Depth            | <u>32.88</u> ft.                    |                    |                        |                      |                         |  |
| Depth to Water         | <u>19.45</u> ft.                    |                    |                        |                      |                         |  |
|                        | <u>13.43</u>                        | xVF <u>0.17</u>    | = <u>2.28</u>          | x3 case volume=      | Estimated Purge Volume: | <u>7</u> gal.                          |
| Purge Equipment:       | Sampling Equipment:                 |                    |                        |                      |                         |  |
| Disposable Bailer      | <input checked="" type="checkbox"/> |                    |                        |                      |                         | Time Started: _____ (2400 hrs)         |
| Stainless Steel Bailer | <input type="checkbox"/>            |                    |                        |                      |                         | Time Completed: _____ (2400 hrs)       |
| Stack Pump             | <input type="checkbox"/>            |                    |                        |                      |                         | Depth to Product: _____ ft             |
| Suction Pump           | <input type="checkbox"/>            |                    |                        |                      |                         | Depth to Water: _____ ft               |
| Grundfos               | <input type="checkbox"/>            |                    |                        |                      |                         | Hydrocarbon Thickness: <u>0</u> ft     |
| Other: _____           | <input type="checkbox"/>            |                    |                        |                      |                         | Visual Confirmation/Description: _____ |
|                        |                                     |                    |                        |                      |                         | Skimmer / Absorbant Sock (circle one)  |
|                        |                                     |                    |                        |                      |                         | Amt Removed from Skimmer: _____ gal    |
|                        |                                     |                    |                        |                      |                         | Amt Removed from Well: _____ gal       |
|                        |                                     |                    |                        |                      |                         | Water Removed: _____                   |
|                        |                                     |                    |                        |                      |                         | Product Transferred to: _____          |

Start Time (purge): 1030 Weather Conditions: Clear  
 Sample Time/Date: 1108 16-15-05 Water Color: Clear Odor: mild  
 Purguing Flow Rate: 8.5 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

| Time (2400 hr.) | Volume (gal.) | pH          | Conductivity (umhos/cm) | Temperature (C) | D.O. (mg/L) | ORP (mV) |
|-----------------|---------------|-------------|-------------------------|-----------------|-------------|----------|
| <u>1046</u>     | <u>2.5</u>    | <u>6.86</u> | <u>768</u>              | <u>62.2</u>     |             |          |
| <u>1052</u>     | <u>5</u>      | <u>6.82</u> | <u>772</u>              | <u>62.5</u>     |             |          |
| <u>1058</u>     | <u>7</u>      | <u>6.81</u> | <u>780</u>              | <u>62.3</u>     |             |          |
|                 |               |             |                         |                 |             |          |
|                 |               |             |                         |                 |             |          |
|                 |               |             |                         |                 |             |          |
|                 |               |             |                         |                 |             |          |

### LABORATORY INFORMATION

| SAMPLE ID   | (#) CONTAINER       | REFRIG.    | PRESERV. TYPE | LABORATORY       | ANALYSES   |
|-------------|---------------------|------------|---------------|------------------|--|
| <u>MW-4</u> | <u>6 x voa vial</u> | <u>YES</u> | <u>HCL</u>    | <u>LANCASTER</u> | <u>TPH-G(8015)/BTEX+MTBE(8260)/<br/>5 OXYS(8260)</u> |
|             |                     |            |               |                  |  |
|             |                     |            |               |                  |  |
|             |                     |            |               |                  |  |
|             |                     |            |               |                  |  |
|             |                     |            |               |                  |  |

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_

Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-0308  
 Site Address: 2399 Market Street  
 City: San Francisco, CA

Job Number: 385105  
 Event Date: 6-15-05 (inclusive)  
 Sampler: Joe

Well ID MW-S Date Monitored: 6-15-05 Well Condition: O.K.  
 Well Diameter 2 in.  
 Total Depth 30.15 ft.  
 Depth to Water 21.22 ft.  

$$8.93 \times VF \underline{0.17} = \underline{1.52}$$
 x3 case volume= Estimated Purge Volume: 4.5 gal.

|                    |            |          |          |           |
|--------------------|------------|----------|----------|-----------|
| Volume Factor (VF) | 3/4"= 0.02 | 1"= 0.04 | 2"= 0.17 | 3"= 0.38  |
|                    | 4"= 0.66   | 5"= 1.02 | 6"= 1.50 | 12"= 5.80 |

Purge Equipment:  
 Disposable Bailer   
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment:  
 Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: 0 ft  
 Visual Confirmation/Description:  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Water Removed: \_\_\_\_\_  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1118 Weather Conditions: clear  
 Sample Time/Date: 1150 16-15-05 Water Color: clear Odor: yes  
 Purging Flow Rate: 0.5 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

| Time<br>(2400 hr.) | Volume<br>(gal.) | pH          | Conductivity<br>(umhos/cm) | Temperature<br>(C/F) | D.O.<br>(mg/L) | ORP<br>(mV) |
|--------------------|------------------|-------------|----------------------------|----------------------|----------------|-------------|
| <u>1130</u>        | <u>1.5</u>       | <u>6.52</u> | <u>808</u>                 | <u>62.1</u>          |                |             |
| <u>1134</u>        | <u>7</u>         | <u>6.55</u> | <u>790</u>                 | <u>62.2</u>          |                |             |
| <u>1139</u>        | <u>4.5</u>       | <u>6.57</u> | <u>791</u>                 | <u>62.6</u>          |                |             |
|                    |                  |             |                            |                      |                |             |
|                    |                  |             |                            |                      |                |             |
|                    |                  |             |                            |                      |                |             |
|                    |                  |             |                            |                      |                |             |

### LABORATORY INFORMATION

| SAMPLE ID   | (#) CONTAINER       | REFRIG.    | PRESERV. | TYPE       | LABORATORY       | ANALYSES   |
|-------------|---------------------|------------|----------|------------|------------------|--|
| <u>MW-5</u> | <u>6 x voa vial</u> | <u>YES</u> |          | <u>HCL</u> | <u>LANCASTER</u> | <u>TPH-G(8015)/BTEX+MTBE(8260)/<br/>5 OXYS(8260)</u> |
|             |                     |            |          |            |                  |  |
|             |                     |            |          |            |                  |  |
|             |                     |            |          |            |                  |  |
|             |                     |            |          |            |                  |  |

COMMENTS: \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_

Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-0308  
 Site Address: 2399 Market Street  
 City: San Francisco, CA

Job Number: 385105  
 Event Date: 6-15-05 (inclusive)  
 Sampler: Joe

|                |                  |                    |                        |                      |   |
|----------------|------------------|--------------------|------------------------|----------------------|---|
| Well ID        | <u>MW-6</u>      | Date Monitored:    | <u>6-15-05</u>         | Well Condition:      | <u>O.K.</u>                             |
| Well Diameter  | <u>2</u> in.     | Volume Factor (VF) | 3/4"= 0.02<br>4"= 0.66 | 1"= 0.04<br>5"= 1.02 | 2"= 0.17<br>6"= 1.50                    |
| Total Depth    | <u>29.76</u> ft. |                    |                        | 3"= 0.38             | 12"= 5.80                               |
| Depth to Water | <u>21.18</u> ft. |                    |                        |                      |   |
|                | <u>8.58</u>      | xVF <u>0.17</u>    | = <u>1.46</u>          | x3 case volume=      | Estimated Purge Volume: <u>4.5</u> gal. |

Purge Equipment:

Disposable Bailer   
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment:

Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

|                                       |            |
|---------------------------------------|------------|
| Time Started:                         | (2400 hrs) |
| Time Completed:                       | (2400 hrs) |
| Depth to Product:                     | ft         |
| Depth to Water:                       | ft         |
| Hydrocarbon Thickness:                | ft         |
| Visual Confirmation/Description:      |            |
| Skimmer / Absorbant Sock (circle one) |            |
| Amt Removed from Skimmer:             | gal        |
| Amt Removed from Well:                | gal        |
| Water Removed:                        |            |
| Product Transferred to:               |            |

Start Time (purge): 1300 Weather Conditions: clear  
 Sample Time/Date: 1330 16-15-05 Water Color: clear Odor: yes  
 Purging Flow Rate: 0.5 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

| Time<br>(2400 hr.) | Volume<br>(gal.) | pH          | Conductivity<br>(umhos/cm) | Temperature<br>(C/D) | D.O.<br>(mg/L) | ORP<br>(mV) |
|--------------------|------------------|-------------|----------------------------|----------------------|----------------|-------------|
| <u>1310</u>        | <u>1.5</u>       | <u>6.72</u> | <u>1115</u>                | <u>62.6</u>          | _____          | _____       |
| <u>1315</u>        | <u>3</u>         | <u>6.75</u> | <u>1067</u>                | <u>62.9</u>          | _____          | _____       |
| <u>1318</u>        | <u>4.5</u>       | <u>6.71</u> | <u>1073</u>                | <u>62.4</u>          | _____          | _____       |
| _____              | _____            | _____       | _____                      | _____                | _____          | _____       |
| _____              | _____            | _____       | _____                      | _____                | _____          | _____       |
| _____              | _____            | _____       | _____                      | _____                | _____          | _____       |
| _____              | _____            | _____       | _____                      | _____                | _____          | _____       |

### LABORATORY INFORMATION

| SAMPLE ID   | (#) CONTAINER       | REFRIG.    | PRESERV. TYPE | LABORATORY       | ANALYSES   |
|-------------|---------------------|------------|---------------|------------------|--|
| <u>MW-6</u> | <u>6 x vca vial</u> | <u>YES</u> | <u>HCL</u>    | <u>LANCASTER</u> | <u>TPH-G(8015)/BTEX+MTBE(8260)/<br/>5 OXYS(8260)</u> |
|             |                     |            |               |                  |  |
|             |                     |            |               |                  |  |
|             |                     |            |               |                  |  |
|             |                     |            |               |                  |  |
|             |                     |            |               |                  |  |

COMMENTS: \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-0308  
 Site Address: 2399 Market Street  
 City: San Francisco, CA

Job Number: 385105  
 Event Date: 6-15-05 (inclusive)  
 Sampler: Joe

Well ID: MW-7 Date Monitored: 6.15.05 Well Condition: 0.1c  
 Well Diameter: 2 in.  
 Total Depth: 30.05 ft.  
 Depth to Water: 21.97 ft.  
8.08 xVF 0.17 = 1.37 x3 case volume= Estimated Purge Volume: 4.5 gal.

|                    |                        |                      |                      |                       |
|--------------------|------------------------|----------------------|----------------------|-----------------------|
| Volume Factor (VF) | 3/4"= 0.02<br>4"= 0.66 | 1"= 0.04<br>5"= 1.02 | 2"= 0.17<br>6"= 1.50 | 3"= 0.38<br>12"= 5.80 |
|--------------------|------------------------|----------------------|----------------------|-----------------------|

Purge Equipment:  
 Disposable Bailer  
 Stainless Steel Bailer  
 Stack Pump  
 Suction Pump  
 Grundfos  
 Other:

Sampling Equipment:  
 Disposable Bailer  
 Pressure Bailer  
 Discrete Bailer  
 Other:

|                                       |            |
|---------------------------------------|------------|
| Time Started:                         | (2400 hrs) |
| Time Completed:                       | (2400 hrs) |
| Depth to Product:                     | ft         |
| Depth to Water:                       | ft         |
| Hydrocarbon Thickness:                | ft         |
| Visual Confirmation/Description:      |            |
| Skimmer / Absorbant Sock (circle one) |            |
| Amt Removed from Skimmer:             | gal        |
| Amt Removed from Well:                | gal        |
| Water Removed:                        |            |
| Product Transferred to:               |            |

Start Time (purge): 12.02 Weather Conditions: clear  
 Sample Time/Date: 1248 6-15-05 Water Color: clear Odor: yes  
 Purging Flow Rate: 8.5 gpm. Sediment Description:  
 Did well de-water? If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

| Time<br>(2400 hr.) | Volume<br>(gal.) | pH          | Conductivity<br>(umhos/cm) | Temperature<br>(°F) | D.O.<br>(mg/L) | ORP<br>(mV) |
|--------------------|------------------|-------------|----------------------------|---------------------|----------------|-------------|
| <u>12.26</u>       | <u>1.5</u>       | <u>6.82</u> | <u>9.09</u>                | <u>63.0</u>         |                |             |
| <u>12.31</u>       | <u>3</u>         | <u>6.80</u> | <u>9.14</u>                | <u>62.7</u>         |                |             |
| <u>12.37</u>       | <u>4.5</u>       | <u>6.79</u> | <u>9.21</u>                | <u>62.1</u>         |                |             |
|                    |                  |             |                            |                     |                |             |
|                    |                  |             |                            |                     |                |             |
|                    |                  |             |                            |                     |                |             |
|                    |                  |             |                            |                     |                |             |

### LABORATORY INFORMATION

| SAMPLE ID    | (#) CONTAINER       | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES                                     |
|--------------|---------------------|---------|---------------|------------|--|
| MW- <u>7</u> | <u>6</u> x voa vial | YES     | HCL           | LANCASTER  | TPH-G(8015)/BTEX+MTBE(8260)/<br>5 OXYS(8260) |
|              |                     |         |               |            |  |
|              |                     |         |               |            |  |
|              |                     |         |               |            |  |
|              |                     |         |               |            |  |
|              |                     |         |               |            |  |

COMMENTS: \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_

Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_

# Chevron California Region Analysis Request/Chain of Custody

**Lancaster Laboratories**

Where quality is a science.

Oil & Gas - 66

10904 Acct. #:

For Lancaster Laboratories use only  
Sample #: 4546266-70 SCR#: 947951

## Analyses Requested

| Preservation Codes   |   |                      |          |           |                                    |
|--|---|----------------------|----------|-----------|------------------------------------|
| H = HCl  | T = Thiolsulfate  | N = HNO <sub>3</sub> | B = NaOH | O = Other | S = H <sub>2</sub> SO <sub>4</sub> |
| <input type="checkbox"/> J value reporting needed  | <input checked="" type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds |                      |          |           |                                    |
| 8021 MTBE Confirmation   |   |                      |          |           |                                    |
| <input type="checkbox"/> Confirm highest hit by 8260   | <input type="checkbox"/> Confirm all hits by 8260   |                      |          |           |                                    |
| <input type="checkbox"/> Run _____ oxy's on highest hit  |   |                      |          |           |                                    |
| <input type="checkbox"/> Run _____ oxy's on all hits   |   |                      |          |           |                                    |
| Comments / Remarks   |   |                      |          |           |                                    |
| Lead 7420 <input type="checkbox"/> 7421 <input type="checkbox"/>   |   |                      |          |           |                                    |
| Oxygenates (8260) <input type="checkbox"/>   |   |                      |          |           |                                    |
| 8260 Full scan <input type="checkbox"/>  |   |                      |          |           |                                    |
| TPH 8015 MDD DRO <input type="checkbox"/> Silica Gel Cleanup   |   |                      |          |           |                                    |
| TPH 8015 MDD GRO <input type="checkbox"/>  |   |                      |          |           |                                    |
| BTEX + MTBE 8260 <input type="checkbox"/> 8021 <input type="checkbox"/>  |   |                      |          |           |                                    |
| Total Number of Contaminants   |   |                      |          |           |                                    |
| Oil <input type="checkbox"/> Air <input type="checkbox"/><br>Water <input type="checkbox"/> Pesticides <input type="checkbox"/>  |   |                      |          |           |                                    |
| Composite Soil <input type="checkbox"/>  |   |                      |          |           |                                    |
| Grab Collected Time Date Collected Service Order # Non SAR: Sampler: 500 ASSEM (AF) Consultant Phone # 925-551-7555 Fax #: 925-551-7899 Consultant Pj. Mgr.: Deanna L. Harding (deanna@ginc.com) |   |                      |          |           |                                    |
| Lead Consultant: CAMBRIAAS Lead Consultant/Office: G-R, Inc., 6747 Sierra Court, Suite J, Dublin, Ca. 94568  |   |                      |          |           |                                    |
| Chevron PM: SHF Site Address: 2399 MARKET STREET, SAN FRANCISCO, CA  |   |                      |          |           |                                    |
| Facility #: SS#9-0308-OML G-R#385105 Global ID#TT0607500077  |   |                      |          |           |                                    |

3460 Rev. 7/30/01

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300  
Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.



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## ***Analysis Report***

### **ANALYTICAL RESULTS**

Prepared for:

ChevronTexaco  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

925-842-8582

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

#### **SAMPLE GROUP**

The sample group for this submittal is 947951. Samples arrived at the laboratory on Saturday, June 18, 2005. The PO# for this group is 99011184 and the release number is HARTUNG-FRERICH.

| <u>Client Description</u> |      |       | <u>Lancaster Labs Number</u> |
|---------------------------|------|-------|------------------------------|
| QA-T-050615               | NA   | Water | 4546266                      |
| MW-4-W-050615             | Grab | Water | 4546267                      |
| MW-5-W-050615             | Grab | Water | 4546268                      |
| MW-6-W-050615             | Grab | Water | 4546269                      |
| MW-7-W-050615             | Grab | Water | 4546270                      |

1 COPY TO                   Cambria C/O Gettler- Ryan  
ELECTRONIC                 Gettler-Ryan  
COPY TO

Attn: Deanna L. Harding  
Attn: Cheryl Hansen



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## ***Analysis Report***

Questions? Contact your Client Services Representative  
Megan A Moeller at (717) 656-2300

Respectfully Submitted,

A handwritten signature in black ink that reads "Michele M. Turner". The signature is fluid and cursive, with "Michele" on top and "M. Turner" stacked below it.

Michele M. Turner  
Director



# Analysis Report

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Page 1 of 1

Lancaster Laboratories Sample No. WW 4546266

QA-T-050615 NA Water  
Facility# 90308 Job# 385105 GRD  
2399 Market-San Francisco T0607500077 QA  
Collected: 06/15/2005

Account Number: 10904

Submitted: 06/18/2005 09:50  
Reported: 06/29/2005 at 22:38  
Discard: 07/30/2005

ChevronTexaco  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

MSSQA

| CAT<br>No.  | Analysis Name               | CAS Number | As Received |     | Method | Detection Limit | Units | Dilution Factor |
|---|-----------------------------|------------|-------------|-----|--------|-----------------|-------|-----------------|
|   |                             |            | Result      |     |        |                 |       |                 |
| 01728   | TPH-GRO - Waters            | n.a.       | N.D.        |     | 50.    |                 | ug/l  | 1               |
| The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. |                             |            |             |     |        |                 |       |                 |
| 06054   | BTEX+MTBE by 8260B          |            |             |     |        |                 |       |                 |
| 02010   | Methyl Tertiary Butyl Ether | 1634-04-4  | N.D.        | 0.5 |        | ug/l            | 1     |                 |
| 05401   | Benzene                     | 71-43-2    | N.D.        | 0.5 |        | ug/l            | 1     |                 |
| 05407   | Toluene                     | 108-88-3   | N.D.        | 0.5 |        | ug/l            | 1     |                 |
| 05415   | Ethylbenzene                | 100-41-4   | N.D.        | 0.5 |        | ug/l            | 1     |                 |
| 06310   | Xylene (Total)              | 1330-20-7  | N.D.        | 0.5 |        | ug/l            | 1     |                 |

State of California Lab Certification No. 2116

## Laboratory Chronicle

| CAT<br>No. | Analysis Name        | Method              | Analysis |                  |              | Dilution Factor |
|------------|----------------------|---------------------|----------|------------------|--------------|-----------------|
|            |                      |                     | Trial#   | Date and Time    | Analyst      |                 |
| 01728      | TPH-GRO - Waters     | N. CA LUFT Gasoline | 1        | 06/22/2005 04:37 | Linda C Pape | 1               |
|            |                      | Method              |          |                  |              |                 |
| 06054      | BTEX+MTBE by 8260B   | SW-846 8260B        | 1        | 06/23/2005 00:39 | Dawn M Harle | 1               |
| 01146      | GC VOA Water Prep    | SW-846 5030B        | 1        | 06/22/2005 04:37 | Linda C Pape | 1               |
| 01163      | GC/MS VOA Water Prep | SW-846 5030B        | 1        | 06/23/2005 00:39 | Dawn M Harle | n.a.            |



# Analysis Report

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Page 1 of 1

Lancaster Laboratories Sample No. WW 4546267

MW-4-W-050615 Grab Water  
Facility# 90308 Job# 385105 GRD  
2399 Market-San Francisco T0607500077 MW-4  
Collected: 06/15/2005 11:08 by JA

Account Number: 10904

Submitted: 06/18/2005 09:50 ChevronTexaco  
Reported: 06/29/2005 at 22:38 6001 Bollinger Canyon Rd L4310  
Discard: 07/30/2005 San Ramon CA 94583

MSS04

| CAT<br>No.  | Analysis Name               | CAS Number | As Received |        | Dilution<br>Factor |
|---|-----------------------------|------------|-------------|--------|--------------------|
|   |                             |            | Method      | Result |                    |
| 01728   | TPH-GRO - Waters            | n.a.       | N.D.        | 50.    | ug/l 1             |
| The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. |                             |            |             |        |                    |
| 06056   | BTEX+5 Oxygenates by 8260B  |            |             |        |                    |
| 02010   | Methyl Tertiary Butyl Ether | 1634-04-4  | N.D.        | 0.5    | ug/l 1             |
| 02011   | di-Isopropyl ether          | 108-20-3   | N.D.        | 0.5    | ug/l 1             |
| 02013   | Ethyl t-butyl ether         | 637-92-3   | N.D.        | 0.5    | ug/l 1             |
| 02014   | t-Amyl methyl ether         | 994-05-8   | N.D.        | 0.5    | ug/l 1             |
| 02015   | t-Butyl alcohol             | 75-65-0    | N.D.        | 5.     | ug/l 1             |
| 05401   | Benzene                     | 71-43-2    | N.D.        | 0.5    | ug/l 1             |
| 05407   | Toluene                     | 108-88-3   | N.D.        | 0.5    | ug/l 1             |
| 05415   | Ethylbenzene                | 100-41-4   | N.D.        | 0.5    | ug/l 1             |
| 06310   | Xylene (Total)              | 1330-20-7  | N.D.        | 0.5    | ug/l 1             |

State of California Lab Certification No. 2116

## Laboratory Chronicle

| CAT<br>No. | Analysis Name              | Method              | Analysis |                  | Dilution<br>Factor              |
|------------|----------------------------|---------------------|----------|------------------|---------------------------------|
|            |                            |                     | Trial#   | Date and Time    |                                 |
| 01728      | TPH-GRO - Waters           | N. CA LUFT Gasoline | 1        | 06/24/2005 17:26 | K. Robert Caulfeild- 1<br>James |
|            |                            | Method              |          |                  |                                 |
| 06056      | BTEX+5 Oxygenates by 8260B | SW-846 8260B        | 1        | 06/23/2005 17:23 | Dawn M Harle 1                  |
| 01146      | GC VOA Water Prep          | SW-846 5030B        | 1        | 06/24/2005 17:26 | K. Robert Caulfeild- 1<br>James |
| 01163      | GC/MS VOA Water Prep       | SW-846 5030B        | 1        | 06/23/2005 17:23 | Dawn M Harle n.a.               |



# Analysis Report

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Page 1 of 1

Lancaster Laboratories Sample No. WW 4546268

MW-5-W-050615 Grab Water  
 Facility# 90308 Job# 385105 GRD  
 2399 Market-San Francisco T0607500077 MW-5  
 Collected: 06/15/2005 11:50 by JA

Account Number: 10904

Submitted: 06/18/2005 09:50  
 Reported: 06/29/2005 at 22:38  
 Discard: 07/30/2005

ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

MSS05

| CAT<br>No.  | Analysis Name               | CAS Number | As Received           |                              | Method<br>Detection<br>Limit | Units | Dilution<br>Factor |
|---|-----------------------------|------------|-----------------------|------------------------------|------------------------------|-------|--------------------|
|   |                             |            | As Received<br>Result | Method<br>Detection<br>Limit |                              |       |                    |
| 01728   | TPH-GRO - Waters            | n.a.       | 2,800.                | 100.                         | ug/l                         | 2     |                    |
| The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. |                             |            |                       |                              |                              |       |                    |
| 06056   | BTEX+5 Oxygenates by 8260B  |            |                       |                              |                              |       |                    |
| 02010   | Methyl Tertiary Butyl Ether | 1634-04-4  | 4.                    | 0.5                          | ug/l                         | 1     |                    |
| 02011   | di-Isopropyl ether          | 108-20-3   | N.D.                  | 0.5                          | ug/l                         | 1     |                    |
| 02013   | Ethyl t-butyl ether         | 637-92-3   | N.D.                  | 0.5                          | ug/l                         | 1     |                    |
| 02014   | t-Amyl methyl ether         | 994-05-8   | N.D.                  | 0.5                          | ug/l                         | 1     |                    |
| 02015   | t-Butyl alcohol             | 75-65-0    | 16.                   | 5.                           | ug/l                         | 1     |                    |
| 05401   | Benzene                     | 71-43-2    | 290.                  | 3.                           | ug/l                         | 5     |                    |
| 05407   | Toluene                     | 108-88-3   | 6.                    | 0.5                          | ug/l                         | 1     |                    |
| 05415   | Ethylbenzene                | 100-41-4   | 6.                    | 0.5                          | ug/l                         | 1     |                    |
| 06310   | Xylene (Total)              | 1330-20-7  | 6.                    | 0.5                          | ug/l                         | 1     |                    |

State of California Lab Certification No. 2116

## Laboratory Chronicle

| CAT<br>No. | Analysis Name              | Method                        | Analysis |                  | Dilution<br>Factor          |
|------------|----------------------------|-------------------------------|----------|------------------|-----------------------------|
|            |                            |                               | Trial#   | Date and Time    |                             |
| 01728      | TPH-GRO - Waters           | N. CA LUFT Gasoline<br>Method | 1        | 06/24/2005 00:48 | K. Robert Caulfeild-James 2 |
| 06056      | BTEX+5 Oxygenates by 8260B | SW-846 8260B                  | 1        | 06/23/2005 17:46 | Dawn M Harle 1              |
| 06056      | BTEX+5 Oxygenates by 8260B | SW-846 8260B                  | 1        | 06/23/2005 18:10 | Dawn M Harle 5              |
| 01146      | GC VOA Water Prep          | SW-846 5030B                  | 1        | 06/24/2005 00:48 | K. Robert Caulfeild-James 2 |
| 01163      | GC/MS VOA Water Prep       | SW-846 5030B                  | 1        | 06/23/2005 17:46 | Dawn M Harle n.a.           |
| 01163      | GC/MS VOA Water Prep       | SW-846 5030B                  | 2        | 06/23/2005 18:10 | Dawn M Harle n.a.           |



# Analysis Report

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Page 1 of 1

Lancaster Laboratories Sample No. WW 4546269

MW-6-W-050615 Grab Water  
Facility# 90308 Job# 385105 GRD  
2399 Market-San Francisco T0607500077 MW-6  
Collected: 06/15/2005 13:30 by JA

Account Number: 10904

Submitted: 06/18/2005 09:50  
Reported: 06/29/2005 at 22:38  
Discard: 07/30/2005

ChevronTexaco  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

MSS06

| CAT<br>No.  | Analysis Name               | CAS Number | As Received |             | Method<br>Detection<br>Limit | Units | Dilution<br>Factor |
|---|-----------------------------|------------|-------------|-------------|------------------------------|-------|--------------------|
|   |                             |            | Result      | As Received |                              |       |                    |
| 01728   | TPH-GRO - Waters            | n.a.       | 47,000.     | 1,300.      | ug/l                         | 25    |                    |
| The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. |                             |            |             |             |                              |       |                    |
| 06056   | BTEX+5 Oxygenates by 8260B  |            |             |             |                              |       |                    |
| 02010   | Methyl Tertiary Butyl Ether | 1634-04-4  | 210.        | 3.          | ug/l                         | 5     |                    |
| 02011   | di-Isopropyl ether          | 108-20-3   | N.D.        | 3.          | ug/l                         | 5     |                    |
| 02013   | Ethyl t-butyl ether         | 637-92-3   | N.D.        | 3.          | ug/l                         | 5     |                    |
| 02014   | t-Amyl methyl ether         | 994-05-8   | N.D.        | 3.          | ug/l                         | 5     |                    |
| 02015   | t-Butyl alcohol             | 75-65-0    | 37.         | 25.         | ug/l                         | 5     |                    |
| 05401   | Benzene                     | 71-43-2    | 2,700.      | 25.         | ug/l                         | 50    |                    |
| 05407   | Toluene                     | 108-88-3   | 4,600.      | 25.         | ug/l                         | 50    |                    |
| 05415   | Ethylbenzene                | 100-41-4   | 2,400.      | 25.         | ug/l                         | 50    |                    |
| 06310   | Xylene (Total)              | 1330-20-7  | 11,000.     | 25.         | ug/l                         | 50    |                    |

The reporting limits for the GC/MS volatile compounds were raised because sample dilution was necessary to bring target compounds into the calibration range of the system.

State of California Lab Certification No. 2116

## Laboratory Chronicle

| CAT<br>No. | Analysis Name              | Method              | Analysis |                  | Analyst                   | Dilution<br>Factor |
|------------|----------------------------|---------------------|----------|------------------|---------------------------|--------------------|
|            |                            |                     | Trial#   | Date and Time    |                           |                    |
| 01728      | TPH-GRO - Waters           | N. CA LUFT Gasoline | 1        | 06/24/2005 01:45 | K. Robert Caulfeild-James | 25                 |
|            |                            | Method              |          |                  | Dawn M Harle              | 5                  |
| 06056      | BTEX+5 Oxygenates by 8260B | SW-846 8260B        | 1        | 06/23/2005 18:34 | Dawn M Harle              | 50                 |
| 06056      | BTEX+5 Oxygenates by 8260B | SW-846 8260B        | 1        | 06/23/2005 18:58 | K. Robert Caulfeild-James | 25                 |
| 01146      | GC VOA Water Prep          | SW-846 5030B        | 1        | 06/24/2005 01:45 | Dawn M Harle              | n.a.               |
| 01163      | GC/MS VOA Water Prep       | SW-846 5030B        | 1        | 06/23/2005 18:34 | Dawn M Harle              | n.a.               |
| 01163      | GC/MS VOA Water Prep       | SW-846 5030B        | 2        | 06/23/2005 18:58 |                           |                    |



# Analysis Report

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Page 1 of 1

Lancaster Laboratories Sample No. WW 4546270

MW-7-W-050615 Grab Water GRD  
Facility# 90308 Job# 385105  
2399 Market-San Francisco T0607500077 MW-7  
Collected: 06/15/2005 12:48 by JA Account Number: 10904

Submitted: 06/18/2005 09:50 ChevronTexaco  
Reported: 06/29/2005 at 22:38 6001 Bollinger Canyon Rd L4310  
Discard: 07/30/2005 San Ramon CA 94583

MSS07

| CAT<br>No.  | Analysis Name               | CAS Number | As Received           |                              | Method<br>Detection<br>Limit | Units | Dilution<br>Factor |
|---|-----------------------------|------------|-----------------------|------------------------------|------------------------------|-------|--------------------|
|   |                             |            | As Received<br>Result | Method<br>Detection<br>Limit |                              |       |                    |
| 01728   | TPH-GRO - Waters            | n.a.       | 140.                  | 50.                          | ug/l                         | 1     |                    |
| The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. |                             |            |                       |                              |                              |       |                    |
| 06056   | BTEX+5 Oxygenates by 8260B  |            |                       |                              |                              |       |                    |
| 02010   | Methyl Tertiary Butyl Ether | 1634-04-4  | 82.                   | 0.5                          | ug/l                         | 1     |                    |
| 02011   | di-Isopropyl ether          | 108-20-3   | N.D.                  | 0.5                          | ug/l                         | 1     |                    |
| 02013   | Ethyl t-butyl ether         | 637-92-3   | N.D.                  | 0.5                          | ug/l                         | 1     |                    |
| 02014   | t-Amyl methyl ether         | 994-05-8   | N.D.                  | 0.5                          | ug/l                         | 1     |                    |
| 02015   | t-Butyl alcohol             | 75-65-0    | 17.                   | 5.                           | ug/l                         | 1     |                    |
| 05401   | Benzene                     | 71-43-2    | 1.                    | 0.5                          | ug/l                         | 1     |                    |
| 05407   | Toluene                     | 108-88-3   | N.D.                  | 0.5                          | ug/l                         | 1     |                    |
| 05415   | Ethylbenzene                | 100-41-4   | N.D.                  | 0.5                          | ug/l                         | 1     |                    |
| 06310   | Xylene (Total)              | 1330-20-7  | N.D.                  | 0.5                          | ug/l                         | 1     |                    |

State of California Lab Certification No. 2116

## Laboratory Chronicle

| CAT<br>No. | Analysis Name              | Method                 | Analysis |                  | Analyst                   | Dilution<br>Factor |
|------------|----------------------------|------------------------|----------|------------------|---------------------------|--------------------|
|            |                            |                        | Trial#   | Date and Time    |                           |                    |
| 01728      | TPH-GRO - Waters           | N. CA LUFT Gasoline    | 1        | 06/21/2005 05:20 | K. Robert Caulfeild-James | 1                  |
| 06056      | BTEX+5 Oxygenates by 8260B | Method<br>SW-846 8260B | 1        | 06/23/2005 19:22 | Dawn M Harle              | 1                  |
| 01146      | GC VOA Water Prep          | SW-846 5030B           | 1        | 06/21/2005 05:20 | K. Robert Caulfeild-James | 1                  |
| 01163      | GC/MS VOA Water Prep       | SW-846 5030B           | 1        | 06/23/2005 19:22 | Dawn M Harle              | n.a.               |

### Quality Control Summary

Client Name: ChevronTexaco  
 Reported: 06/29/05 at 10:39 PM

Group Number: 947951

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

#### Laboratory Compliance Quality Control

| <u>Analysis Name</u>  | <u>Blank Result</u>   | <u>Blank MDL</u>   | <u>Report Units</u>  | <u>LCS %REC</u>                                    | <u>LCSD %REC</u> | <u>LCS/LCSD Limits</u>   | <u>RPD</u> | <u>RPD Max</u> |
|---|---|--|--|--|------------------|--|------------|----------------|
| Batch number: 05171A16A<br>TPH-GRO - Waters   | Sample number(s): 4546270<br>N.D.   | 50.  | ug/l   | 90   | 96               | 70-130   | 7          | 30             |
| Batch number: 05172A16A<br>TPH-GRO - Waters   | Sample number(s): 4546266<br>N.D.   | 50.  | ug/l   | 96   | 92               | 70-130   | 4          | 30             |
| Batch number: 05174A16A<br>TPH-GRO - Waters   | Sample number(s): 4546268-4546269<br>N.D.   | 50.  | ug/l   | 92   | 91               | 70-130   | 2          | 30             |
| Batch number: 05174A16B<br>TPH-GRO - Waters   | Sample number(s): 4546267<br>N.D.   | 50.  | ug/l   | 92   | 91               | 70-130   | 2          | 30             |
| Batch number: Z051731AA<br>Methyl Tertiary Butyl Ether<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylene (Total)  | Sample number(s): 4546266<br>N.D.<br>N.D.<br>N.D.<br>N.D.<br>N.D.   | 0.5<br>0.5<br>0.5<br>0.5<br>0.5                            | ug/l<br>ug/l<br>ug/l<br>ug/l<br>ug/l                         | 82<br>93<br>95<br>94<br>100                        |                  | 77-127<br>85-117<br>85-115<br>82-119<br>83-113   |            |                |
| Batch number: Z051741AA<br>Methyl Tertiary Butyl Ether<br>di-Isopropyl ether<br>Ethyl t-butyl ether<br>t-Amyl methyl ether<br>t-Butyl alcohol<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylene (Total) | Sample number(s): 4546267-4546270<br>N.D.<br>N.D.<br>N.D.<br>N.D.<br>N.D.<br>N.D.<br>N.D.<br>N.D.<br>N.D. | 0.5<br>0.5<br>0.5<br>0.5<br>5.<br>0.5<br>0.5<br>0.5<br>0.5 | ug/l<br>ug/l<br>ug/l<br>ug/l<br>ug/l<br>91<br>93<br>93<br>93 | 89<br>89<br>89<br>89<br>95<br>91<br>93<br>93<br>93 |                  | 77-127<br>67-130<br>74-120<br>79-113<br>57-141<br>85-117<br>85-115<br>82-119<br>83-113 |            |                |

#### Sample Matrix Quality Control

| <u>Analysis Name</u>                        | <u>MS %REC</u>                   | <u>MSD %REC</u> | <u>MS/MSD Limits</u>                     | <u>RPD MAX</u> | <u>BKG Conc</u> | <u>DUP Conc</u> | <u>DUP RPD</u> | <u>Dup RPD Max</u> |
|---|----------------------------------|-----------------|--|----------------|-----------------|-----------------|----------------|--------------------|
| Batch number: 05171A16A<br>TPH-GRO - Waters | Sample number(s): 4546270<br>105 |                 | 63-154                                   |                |                 |                 |                |                    |
| Batch number: 05174A16A<br>TPH-GRO - Waters |                                  |                 | Sample number(s): 4546268-4546269<br>106 |                | 63-154          |                 |                |                    |
| Batch number: 05174A16B                     |                                  |                 | Sample number(s): 4546267                |                |                 |                 |                |                    |

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

### Quality Control Summary

Client Name: ChevronTexaco  
 Reported: 06/29/05 at 10:39 PM

Group Number: 947951

#### Sample Matrix Quality Control

| <u>Analysis Name</u>        | <u>MS %REC</u> | <u>MSD %REC</u>                   | <u>MS/MSD Limits</u> | <u>RPD</u> | <u>BKG MAX</u> | <u>DUP Conc</u> | <u>DUP RPD</u> | <u>Dup RPD Max</u> |
|-----------------------------|----------------|-----------------------------------|----------------------|------------|----------------|-----------------|----------------|--------------------|
| TPH-GRO - Waters            | 106            |                                   | 63-154               |            |                |                 |                |                    |
| Batch number: Z051731AA     |                | Sample number(s): 4546266         |                      |            |                |                 |                |                    |
| Methyl Tertiary Butyl Ether | 84             | 88                                | 69-134               | 5          | 30             |                 |                |                    |
| Benzene                     | 99             | 105                               | 83-128               | 6          | 30             |                 |                |                    |
| Toluene                     | 101            | 106                               | 83-127               | 5          | 30             |                 |                |                    |
| Ethylbenzene                | 100            | 106                               | 82-129               | 6          | 30             |                 |                |                    |
| Xylene (Total)              | 105            | 111                               | 82-130               | 6          | 30             |                 |                |                    |
| Batch number: Z051741AA     |                | Sample number(s): 4546267-4546270 |                      |            |                |                 |                |                    |
| Methyl Tertiary Butyl Ether | (2)            | (2)                               | 69-134               | 0          | 30             |                 |                |                    |
| di-Isopropyl ether          | 103            | 103                               | 75-130               | 0          | 30             |                 |                |                    |
| Ethyl t-butyl ether         | 103            | 102                               | 78-119               | 1          | 30             |                 |                |                    |
| t-Amyl methyl ether         | 104            | 103                               | 77-117               | 1          | 30             |                 |                |                    |
| t-Butyl alcohol             | 97             | 100                               | 51-147               | 2          | 30             |                 |                |                    |
| Benzene                     | 106            | 106                               | 83-128               | 0          | 30             |                 |                |                    |
| Toluene                     | 106            | 106                               | 83-127               | 0          | 30             |                 |                |                    |
| Ethylbenzene                | 108            | 107                               | 82-129               | 1          | 30             |                 |                |                    |
| Xylene (Total)              | 106            | 106                               | 82-130               | 0          | 30             |                 |                |                    |

#### Surrogate Quality Control

Analysis Name: TPH-GRO - Waters  
 Batch number: 05171A16A  
 Trifluorotoluene-F

|         |     |
|---------|-----|
| 4546270 | 98  |
| Blank   | 97  |
| LCS     | 98  |
| LCSD    | 101 |
| MS      | 102 |

Limits: 70-142

Analysis Name: TPH-GRO - Waters  
 Batch number: 05172A16A  
 Trifluorotoluene-F

|         |     |
|---------|-----|
| 4546266 | 99  |
| Blank   | 99  |
| LCS     | 101 |
| LCSD    | 101 |

Limits: 70-142

Analysis Name: TPH-GRO - Waters  
 Batch number: 05174A16A  
 Trifluorotoluene-F

|         |     |
|---------|-----|
| 4546268 | 102 |
| 4546269 | 97  |
| Blank   | 92  |

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 3 of 3

## Quality Control Summary

Client Name: ChevronTexaco  
Reported: 06/29/05 at 10:39 PM

Group Number: 947951

### Surrogate Quality Control

|      |    |
|------|----|
| LCS  | 95 |
| LCSD | 96 |
| MS   | 97 |

Limits: 70-142

Analysis Name: TPH-GRO - Waters  
Batch number: 05174A16B  
Trifluorotoluene-F

|         |    |
|---------|----|
| 4546267 | 95 |
| Blank   | 94 |
| LCS     | 95 |
| LCSD    | 96 |
| MS      | 97 |

Limits: 70-142

Analysis Name: BTEX+MTBE by 8260B  
Batch number: Z051731AA

| Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|----------------------|-----------------------|------------|----------------------|
|----------------------|-----------------------|------------|----------------------|

|         |     |    |    |    |
|---------|-----|----|----|----|
| 4546266 | 102 | 93 | 92 | 86 |
| Blank   | 101 | 92 | 93 | 86 |
| LCS     | 100 | 92 | 93 | 92 |
| MS      | 100 | 92 | 92 | 92 |
| MSD     | 100 | 93 | 92 | 91 |

Limits: 81-120                    82-112                    85-112                    83-113

Analysis Name: BTEX+S Oxygenates by 8260B  
Batch number: Z051741AA

| Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|----------------------|-----------------------|------------|----------------------|
|----------------------|-----------------------|------------|----------------------|

|         |    |    |    |    |
|---------|----|----|----|----|
| 4546267 | 92 | 93 | 95 | 87 |
| 4546268 | 88 | 90 | 94 | 94 |
| 4546269 | 90 | 88 | 94 | 97 |
| 4546270 | 91 | 90 | 94 | 90 |
| Blank   | 92 | 92 | 94 | 88 |
| LCS     | 91 | 93 | 94 | 93 |
| MS      | 91 | 92 | 95 | 93 |
| MSD     | 91 | 92 | 95 | 93 |

Limits: 81-120                    82-112                    85-112                    83-113

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

|                  |  |          |                                  |
|------------------|--|----------|----------------------------------|
| N.D.             | none detected  | BMQL     | Below Minimum Quantitation Level |
| TNTC             | Too Numerous To Count  | MPN      | Most Probable Number             |
| IU               | International Units  | CP Units | cobalt-chloroplatinate units     |
| umhos/cm         | micromhos/cm   | NTU      | nephelometric turbidity units    |
| C                | degrees Celsius  | F        | degrees Fahrenheit               |
| meq              | milliequivalents   | lb.      | pound(s)                         |
| g                | gram(s)  | kg       | kilogram(s)                      |
| ug               | microgram(s)   | mg       | milligram(s)                     |
| ml               | milliliter(s)  | l        | liter(s)                         |
| m3               | cubic meter(s)   | ul       | microliter(s)                    |
| <                | less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.  |          |                                  |
| >                | greater than   |          |                                  |
| J                | estimated value – The result is $\geq$ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).   |          |                                  |
| ppm              | parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas. |          |                                  |
| ppb              | parts per billion  |          |                                  |
| Dry weight basis | Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.   |          |                                  |

## U.S. EPA CLP Data Qualifiers:

| Organic Qualifiers |   | Inorganic Qualifiers |   |
|--------------------|---|----------------------|---|
| A                  | TIC is a possible aldol-condensation product                              | B                    | Value is <CRDL, but $\geq$ IDL                          |
| B                  | Analyte was also detected in the blank                                    | E                    | Estimated due to interference                           |
| C                  | Pesticide result confirmed by GC/MS                                       | M                    | Duplicate injection precision not met                   |
| D                  | Compound quantitated on a diluted sample                                  | N                    | Spike sample not within control limits                  |
| E                  | Concentration exceeds the calibration range of the instrument             | S                    | Method of standard additions (MSA) used for calculation |
| N                  | Presumptive evidence of a compound (TICs only)                            | U                    | Compound was not detected                               |
| P                  | Concentration difference between primary and confirmation columns $>25\%$ | W                    | Post digestion spike out of control limits              |
| U                  | Compound was not detected   | *                    | Duplicate analysis not within control limits            |
| X,Y,Z              | Defined in case narrative   | +                    | Correlation coefficient for MSA $<0.995$                |

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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